

IN THE CLAIMS

1-20. (canceled)

21. (currently amended) An electromagnetically controlled drive system for accessing a data storage medium, comprising:

a reflector element adapted to be responsive to an electromagnetic field and adapted to direct an optical signal toward the data storage medium; and

an electromagnetic element adapted to generate the electromagnetic field proximate to the reflector element to produce rotational and lateral movement of the reflector element [about at least one axis] relative to the data storage medium.

22. (currently amended) The system of Claim 21, wherein the electromagnetic element is adapted to generate the electromagnetic field to produce both the rotational and lateral movement of the reflector element along [the at least one] a same axis.

23. (currently amended) The system of Claim 21, wherein the electromagnetic element is adapted to generate the electromagnetic field to produce the rotational and lateral movement of the reflector element along [another axis different than the at least one axis] at least two different axes.

24. (previously presented) The system of Claim 21, wherein the electromagnetic element comprises at least two spaced apart conductive coils each extending in a direction substantially orthogonal to the at least one axis.

25. (previously presented) The system of Claim 21, wherein the electromagnetic element is adapted to generate the electromagnetic field to produce focus movement of the reflector element relative to the data storage medium.

26. (previously presented) The system of Claim 21, further comprising a controller adapted to vary a current applied to at least one of a plurality of conductive coils of the electromagnetic element to produce the rotational movement.

27. (previously presented) The system of Claim 21, wherein the electromagnetic element comprises at least one conductive coil disposed on a printed circuit board.

28. (previously presented) The system of Claim 21, wherein the electromagnetic element comprises a printed circuit board having at least one conductive coil disposed thereon formed by a conductive trace.

29. (currently amended) A method for accessing a data storage medium, comprising:

directing an optical signal toward the data storage medium via a reflector element, the reflector element responsive to an electromagnetic field; and

controlling, via the electromagnetic field, rotational and lateral movement of the reflector element [about at least one axis] relative to the data storage medium.

30. (currently amended) The method of Claim 30, further comprising controlling, via the electromagnetic field, both the rotational and lateral movement of the reflector element about [the at least one] a same axis.

31. (currently amended) The method of Claim 30, further comprising controlling, via the electromagnetic field, the rotational and lateral movement of the reflector element about [another axis different than the at least one axis] at least two different axes.

32. (previously presented) The method of Claim 30, further comprising controlling, via the electromagnetic field, focus movement of the reflector element relative to the data storage medium.

33. (previously presented) The method of Claim 30, further comprising generating the electromagnetic field via a printed circuit board having at least one conductive coil formed thereon.

34. (previously presented) The method of Claim 30, further comprising generating the electromagnetic field via a printed circuit board having at least one conductive coil formed thereon by a conductive trace.

35. (previously presented) The method of Claim 30, further comprising generating the electromagnetic field by selectively generating a current through at least one conductive coil disposed outside a boundary area of the reflector element.

36. (currently amended) An electromagnetically controlled drive system for accessing a data storage medium, comprising:

means for reflecting an optical signal toward the data storage medium; and

means for controlling, via an electromagnetic field, rotational and lateral movement of the reflecting means [about at least one axis] relative to the data storage medium.

37. (previously presented) The system of Claim 36, further comprising at least one conductive coil means formed on a printed circuit board for generating the electromagnetic field.

38. (currently amended) The system of Claim 36, wherein the controlling means comprises means for controlling, via the electromagnetic field, both the rotational and lateral movement of the reflecting means about [another axis different than the at least one] a same axis.

39. (previously presented) The system of Claim 36, further comprising means for generating the electromagnetic field having at least one conductive coil means formed by a conductive trace.

40. (previously presented) An electromagnetically controlled drive system for accessing a data storage medium, comprising:

means for reflecting an optical signal toward the data storage medium, the reflecting means responsive to an electromagnetic field; and

at least one conductive coil means formed on a printed circuit board for generating the electromagnetic field.

41. (previously presented) The system of Claim 40, wherein the at least one conductive coil means comprises a conductive trace formed on the printed circuit board.

42. (previously presented) The system of Claim 40, further comprising a means for selectively varying a current direction through the at least one conductive coil means.

43. (previously presented) The system of Claim 40, wherein the at least one conductive coil means is disposed outside a boundary area of the reflecting means.

44. (previously presented) The system of Claim 40, further comprising a means for selectively varying a current amplitude generated through the at least one conductive coil means.

45. (canceled)

46. (currently amended) The system of Claim [45] 47, further comprising a support system adapted to movably support the reflector element relative to the electromagnetic element.

47. (currently amended) [The system of Claim 45] An electromagnetically controlled drive system for accessing a data storage medium, comprising:

an electromagnetic element adapted to generate an electromagnetic field; and

a reflector element movable relative to the electromagnetic element in response to the electromagnetic field and adapted to direct an optical signal toward the data storage medium, the reflector element movable in a lateral direction relative to the electromagnetic element.

48. (currently amended) The system of Claim [45] 47, the reflector element movable in a focus direction relative to the electromagnetic element.

49. (currently amended) The system of Claim [45] 47, the reflector element movable along at least one axis, and wherein the electromagnetic element comprises a plurality of conductive coils each extending longitudinally along the at least one axis.

50. (currently amended) The system of Claim [45] 47, wherein the electromagnetic element comprises a printed circuit board having at least one conductive coil disposed thereon.

51. (currently amended) The system of Claim [45] 47, wherein the electromagnetic element comprises at least one conductive trace formed on a printed circuit board to form a conductive coil.

52. (currently amended) The system of Claim 45 47, wherein the electromagnetic element is adapted to generate the electromagnetic field to enable rotational movement of the reflector element about at least one axis.

53. (canceled)

54. (currently amended) The system of Claim [53] 55, wherein the generating means comprises at least one conductive coil means disposed on a printed circuit board.

55. (currently amended) [The system of Claim 53] An electromagnetically controlled drive system for accessing a data storage medium, comprising:

means for generating an electromagnetic field; and

means for directing an optical signal toward the data storage medium, the directing means movable in a lateral direction relative to the generating means in response to the electromagnetic field.

56. (currently amended) The system of Claim [53] 55, the directing means movable in a focus direction relative to the generating means.

57. (currently amended) The system of Claim [53] 55, the directing means rotationally movable relative to the generating means about at least one axis.

58. (canceled)

59. (currently amended) [The method of Claim 58, wherein controlling comprises] A method for accessing a data storage medium, comprising:

generating an electromagnetic field proximate to a reflector element using an electromagnetic element; and

controlling, via the electromagnetic field, lateral movement of the reflector element along at least one axis relative to the electromagnetic element to direct an optical signal toward the data storage medium from the reflector element.

60. (currently amended) The method of Claim [58] 59, wherein controlling comprises controlling, via the electromagnetic field, focus movement of the reflector element relative to the electromagnetic element.

61. (currently amended) The method of Claim [58] 59, wherein generating the electromagnetic field comprises generating a current through at least one conductive coil formed on a printed circuit board of the electromagnetic element.

62. (currently amended) The method of Claim [58] 59, wherein generating the electromagnetic field comprises generating a current through at least one conductive trace formed on a printed circuit board of the electromagnetic element to form a conductive coil.